BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

SECTION- IX

VOLUME-II

Bill of Quantities (BOQ)

PART-I SUPPLY PORTION				
SL No	**Particulars**	**Unit**	**Total Qty**	**Material Code**
1	Supply & Erection of PSCC pole 9 mtr long 200kg W/L (for intermediate only)	No	**68**	200006
2	Supply & Erection of 11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL-GI	set	**154**	CDS materials for General works
3	Supply & Providing of 45KN Composite polymer insulators.	No	**72**	283320
4	Supply & Providing of 11kV Composite Polymer pins insulators.(24mm dia FRP rod)	No	**148**	283008
5	Supply & Providing of Guy Set Complete with No. 15 Strain Insulator & Concreting materials-GI	set	**32**	CDS materials for General works
6	Supply & stringing of ACSR Rabbit conductor with 1.5% sag as per BESCOM Specification	Km	**9.622**	284108
7	Supply & Providing of Spiral Earth Electrode	No	**117**	281683
8	Supply & erection of DP set (2 pole structure kit-GI) with 9 mtr PSCC, 300 KG W/L including 5Kg , 8SWG GI wire for structure grounding.	set	**5**	CDS 46
9	Supply & providing of 11kV class 200 AMPS Single Break GOS	Set	**11**	304212
10	Supply & providing of H - Frame Set for 11kV, 200Amps Single Break GOS Mounting - GI	Set	**5**	280149
11	Supply & providing of caution/Danger board as per drawing no.BESCOM/GM/CP/40/24.10.17	No	**17**	613050
12	Supply & Fixing of Anticlimbing Device GI Barbed Wire (12 mtrs/1kg)Lumpsum	Kg	**89**	278911
13	70 Sq.mm AAAC (AL-7), 11 KV Covered Conductor	KM	**0.85**	
14	Alignment Tie	No	**18**	
15	Dead End (Anchoring Clamp)	No	**6**	
16	Insulation Piercing Connector Covered to Covered – IPC – TTDC 284014 FA	No	**6**	
17	Insulation Piercing Connector Bare to Covered – IPC – NTDC 284014 FA	No	**6**	
18	Mid Span Joint MJPT 75 G 28	No	**6**	
19	Outdoor Termination Kit	No	**4**	
20	End Cap	No	**6**	
21	PG Clamps for Rabbit conductor	Nos	6	285508, CDS 63
22	Supply & Erection of Double Pole Mounted Transformer kit for 63 kVA with 2 Nos of 9 mtr long PSCC Pole, 300KG W/L- GI	Set	**4**	CDS materials for General works

23	Supply & Erection of 11kV/433V, 63 kVA,3phase 50cys Distribution Transformer BEE-4star rated	No	**4**	321438
24	Supply & providing of Earthing materials pipe type for grounding as per Drawing No BESCOM/GM/CP/15&34 dt:24.10.17(Single Electrode with accessories)	No	**18**	281674+600095+607054, CDS 60
25	Supply & providing of GI wire 8SWG	kg	**30**	281008
26	Supply & providing of Guy wire 7/10SWG	kg	**40**	281110
27	Supply & providing of 11kV lightning arrestors, poliymer Type,9kV 5 kA (Set=3No)	Set	**4**	303202, CDS 60
28	Supply & providing of LT Protection kit	No	**6**	301107
29	Supply & providing of LT wiring (from DTC to LT line)			
	i) Al Lead Wire - 95 Sqmm	Mtr	**160**	289031
	ii) Heavy Duty Long Barrel Copper Lug - 95 Sqmm	No	**16**	288531
	iii) PG Clamp - Rabbit to 95 Sqmm	No	**16**	285508, CDS 60
	iv) Spacer for DTC Wiring	No	**32**	284503
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	**8**	280800+280511, CDS 60
	vi) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	**4**	CDS 39
30	Supply & providing of H.G.Fuse unit,11kV solid core Type(Set=3no)	Set	**6**	302122
31	Supply & Erection of Single Pole Mounted Transformer kit for 25 kVA on 9 mtr PSCC Poles of 300kG WL --GI with H-frame	Set	**2**	280119, CDS materials for General works
32	Supply & Erection of 11kV/433V, 25 kVA,3phase 50cys Distribution Transformer BEE-4star rated	No	**2**	321437
33	Supply & providing of Guy wire 7/10SWG	kg	**20**	281110
34	Supply & providing of 11kV lightning arrestors, polymer Type, 9kV 5kA(Set=3No)	Set	**2**	303202, CDS 60
35	Supply & providing of LT wiring (from DTC to LT line)			
a	Aluminium lead wire 50 sqmm	Mtr	**50**	289031
b	Heavy duty long barrel copper lugs- 50 sqmm	No	**8**	288531
c	P.G Clamps - Rabbit to 50 sq.mm	No	**8**	285508, CDS 63
d	Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	**4**	280800+280511, CDS 63
e	Spacers for DTC wiring	No	**16**	284503
f	LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	2	CDS 39
36	PSCC Pole - 8 Mtr Long, 200 Kg WL (for Intermediate Pole)	No	25	200004
37	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 8 Mtr Long, 200 Kg WL-GI	Set	16	280014, CDS materials for General works

38	LT 2 Pin Cross Arm with clamps, bolts, nuts for PSCC Pole - 8 Mtr Long, 200 Kg WL- GI	Set	12	280012, CDS materials for General works
39	1.1 kV Pin Insulator with GI Pin	No	48	283053, CDS 5
40	No. 8 Strain Insulator	No	46	283158
41	Supply & Providing of Guy Set Complete with No 8. Strain Insulator & Concreting materials-GI	Set	8	CDS materials for General works
42	Sheet Metal/Deep Drawn Street Lighting Metering Box with Automatic Control Swith, Contactors with Single Phase 5-30 Amps Meter & 50/5A CT including wiring	No	2	CDS 69
43	PVC Pipe 40 mm Dia	Mtr	2	CDS 69
44	PVC Insulated wire 25 Sqmm Single Core Multi Stranded	Mtr	20	CDS 69
45	1.1kV Class 3 Phase Aerial Bunched Cable of size 3x95+1x16+1x70 Sq. mm	**KMs**	**0.56**	CDS 37
46	Three Phase Distribution box for 6 Connections	No's	**14**	CDS 37
47	Piercing connector suitable for 16 Sq. mm - 95 Sq. mm AB Cable - Service Connections	No's	**14**	CDS 37
48	Piercing connector suitable for 16 Sq. mm - 95 Sq. mm AB Cable - Street Light Connections	No's	**14**	CDS 37
49	Suspension Clamp Assembly 16 to 70 mm (Excluding pole clamp & Eye Hook)	Sets	**14**	CDS 37
50	Pole clamp for HT/LT AB cable	Sets	**14**	CDS 37
51	Eye Hook (Flat type) for fixing Clamps	Sets	**14**	CDS 37
52	Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sq mm (excluding pole clamps and Eye hook)	Sets	**4**	CDS 37
53	T-connector KZ3 95	No's	**2**	CDS 37
54	Pre-Insulated lugs-CPTAU for 95 Sqmm	No's	**20**	CDS 37
55	End cap for 50/70 Sqmm	No's	**20**	CDS 37

PART-II ERECTION PORTION			
SL No	**Particulars**	**Unit**	**Total Qty**
1	Supply & Erection of PSCC pole 9 mtr long 200kg W/L (for intermediate only)	No	**68**
2	Supply & Erection of 11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL-GI	set	**154**
3	Supply & Providing of Guy Set Complete with No. 15 Strain Insulator & Concreting materials-GI	set	**32**
4	Supply & stringing of ACSR Rabbit conductor with 1.5% sag as per BESCOM Specification	Km	**9.622**
5	Supply & Providing of Spiral Earth Electrode	No	**117**

6	Supply & erection of DP set (2 pole structure kit-GI) with 9 mtr PSCC, 300 KG W/L including 5Kg , 8SWG GI wire for structure grounding.	set	**5**
7	Supply & providing of 11kV class 200 AMPS Single Break GOS	Set	**11**
8	Supply & providing of H - Frame Set for 11kV, 200Amps Single Break GOS Mounting - GI	Set	**5**
9	Supply & providing of caution/Danger board as per drawing no.BESCOM/GM/CP/40/24.10.17	No	**17**
10	Supply & Fixing of Anticlimbing Device GI Barbed Wire (12 mtrs/1kg)Lumpsum	Kg	**89**
11	Realising and restringing of Rabbit ACSR conductor	Kms	**5.52**
12	70 Sq.mm AAAC (AL-7), 11 KV Covered Conductor	KM	**0.85**
13	Alignment Tie	No	**18**
14	Dead End (Anchoring Clamp)	No	**6**
15	Insulation Piercing Connector Covered to Covered – IPC – TTDC 284014 FA	No	**6**
16	Insulation Piercing Connector Bare to Covered – IPC – NTDC 284014 FA	No	**6**
17	Mid Span Joint MJPT 75 G 28	No	**6**
18	Outdoor Termination Kit	No	**4**
19	End Cap	No	**6**
20	Supply & Erection of Double Pole Mounted Transformer kit for 63 kVA with 2 Nos of 9 mtr long PSCC Pole, 300KG W/L- GI	Set	**4**
21	Supply & Erection of 11kV/433V, 63 kVA,3phase 50cys Distribution Transformer BEE-4star rated	No	**4**
22	Supply & providing of Earthing materials pipe type for grounding as per Drawing No BESCOM/GM/CP/15&34 dt:24.10.17(Single Electrode with accessories)	No	**18**
23	Supply & providing of 11kV lightning arrestors, poliymer Type,9kV 5 kA (Set=3No)	Set	**4**
24	Supply & providing of LT Protection kit	No	**6**
25	Supply & providing of LT wiring (from DTC to LT line)		
	i) Al Lead Wire - 95 Sqmm	Mtr	**160**
	ii) Heavy Duty Long Barrel Copper Lug - 95 Sqmm	No	**16**

	iii) PG Clamp - Rabbit to 95 Sqmm	No	**16**
	iv) Spacer for DTC Wiring	No	**32**
	v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	**8**
	vi) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	**4**
26	Supply & providing of H.G.Fuse unit,11kV solid core Type(Set=3no)	Set	**6**
27	Supply & Erection of Single Pole Mounted Transformer kit for 25 kVA on 9 mtr PSCC Poles of 300kG WL --GI with H-frame	Set	**2**
28	Supply & Erection of 11kV/433V, 25 kVA,3phase 50cys Distribution Transformer BEE-4star rated	No	**2**
29	Supply & providing of 11kV lightning arrestors, polymer Type, 9kV 5kA(Set=3No)	Set	**2**
30	Supply & providing of LT wiring (from DTC to LT line)		
a	Aluminium lead wire 50 sqmm	Mtr	**50**
b	Heavy duty long barrel copper lugs- 50 sqmm	No	**8**
c	P.G Clamps - Rabbit to 50 sq.mm	No	**8**
d	Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised)	No	**4**
e	Spacers for DTC wiring	No	**16**
f	LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39)	No	2
31	PSCC Pole - 8 Mtr Long, 200 Kg WL (for Intermediate Pole)	No	25
32	LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 8 Mtr Long, 200 Kg WL-GI	Set	16
33	LT 2 Pin Cross Arm with clamps, bolts, nuts for PSCC Pole - 8 Mtr Long, 200 Kg WL- GI	Set	12
34	Supply & Providing of Guy Set Complete with No 8. Strain Insulator & Concreting materials-GI	Set	8
35	Guy concreting with Boulders, Mud and Sand	No	5
36	Sheet Metal/Deep Drawn Street Lighting Metering Box with Automatic Control Swith, Contactors with Single Phase 5-30 Amps Meter & 50/5A CT including wiring	No	2
37	1.1kV Class 3 Phase Aerial Bunched Cable of size 3x95+1x16+1x70 Sq. mm	**KMs**	**0.56**

38	Three Phase Distribution box for 6 Connections	No's	**14**
39	Piercing connector suitable for 16 Sq. mm - 95 Sq. mm AB Cable - Service Connections	No's	**14**
40	Piercing connector suitable for 16 Sq. mm - 95 Sq. mm AB Cable - Street Light Connections	No's	**14**
41	Suspension Clamp Assembly 16 to 70 mm (Excluding pole clamp & Eye Hook)	Sets	**14**
42	Pole clamp for HT/LT AB cable	Sets	**14**
43	Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sq mm (excluding pole clamps and Eye hook)	Sets	**4**
44	T-connector KZ3 95	No's	**2**
45	Pre-Insulated lugs-CPTAU for 95 Sqmm	No's	**20**
46	End cap for 50/70 Sqmm	No's	**20**
47	Guy Concreting with Mud, Boulders & Sand	Sets	**3**